Table 1: Candidates for Random Selection Second Round

No.	Chemical Name	CAS	Remarks
		Number	
1.	acetoxymethylphenyl-	81943375	Used for research on carcinogenesis
	nitrosamine		_
2.	allyl isothiocyanate	57067	Dog and cat repellent; flavoring
3.	allyl isovalerate	2835394	Fragrance in cosmetics, flavoring agent
4.	3-amino-4-ethoxyacetanilide	17026812	Intermediate for synthesis of dyes
5.	2-amino-5-nitrothiazole	121664	Antiprotozoan drug for chickens
6.	11-aminoundecanoic acid	2432997	Initiator in nylon synthesis
7.	anthanthrene	191264	Component of fossil fuels; product of
			incomplete combustion
8.	antipyrine (phenazone)	60800	Analgesic drug
9.	atrazine	1912249	Herbicide with extensive use
10.	p-benzoquinone dioxime (p-	105113	Accelerator in rubber manufacture
	quinone dioxime)		
11.	1-benzoyl-2,6-dimethyl-4-	61034400	Used for research on carcinogenesis
	nitrosopiperazine		
12.	4-bis(2-hydroxyethyl)amino-	33372393	Evaluated but not approved as an anti-
	2-(5-nitro-2-thienyl)-		helminthic drug
	quinazoline		
13.	bis(4-chlorophenyl)sulfone	80079	Used in the synthesis of plastics
	(p,p'-dichlorophenylsulfone)		
14.	bleomycin	11056067	Prescription drug used to treat certain
			types of cancer
15.	2-bromo-2-methylpropane	507197	Intermediate for chemical synthesis
	(tert-butyl bromide)		
16.	1-butanol (n-butanol, n-butyl	71363	Solvent (e.g., for fats and waxes); used
	alcohol)		in manufacturing (e.g., resins, rayon,
			detergents); used in microscopy for
			paraffin imbedding
17.	1-butylhydrazine hydro-	56795654	Used for research on carcinogenesis
	chloride (n-butylhydrazine		
18.	hydrochloride) C.I. acid blue 9 and its salts	2650182	Dye for nylon, wool, other materials
19.	C.I. acid orange 3	6373746	
20.	C.I. acid orange 3	16423680	Dye for nylon, wool, other materials
21.	C.I. acid fed 31 C.I. vat yellow 4	128665	Food dye
22.	carbamazepine	298464	Dye for cotton, silk, wool, paper
<i>≟</i> ∠ .	Carbamazepine	290404	Prescription drug used for treatment of
23.	carboxymethylnitrosourea	60391926	epilepsy and trigeminal neuralgia Used for research on carcinogenesis
<i>2J</i> ,	(N-carbamoyl-N-nitroso-	00371720	Osed for research on carcinogenesis
	glycine)		
24.	chlorinated paraffins (C23;	108171273	Used in waxes
	43% chlorine)	1001/12/3	obed in waxes
	1 43 /0 CHIOLITE		

ther chloromethane (methyl chloride) c-chloromethylpyridine cydrochloride c-chloro-m- chenylenediamine chromium picolinate chrysoidine (C.I. solvent crange 3) citral C&C yellow no. 11 (C.I. colvent yellow 33) lehydroretronecine liallate libromomannitol	74873 6959484 5131602 532821 5392405 123739 8003223 23107122 2303164	in rubber Extensively used for silicone rubber synthesis Chemical research Chemical research Nutritional supplement containing the essential trace element chromium Dye for silk, cotton, oils, waxes Chemical intermediate (e.g., in synthesi of vitamin A); flavoring and perfuming agent Chemical intermediate in the manufacture of a variety of chemicals; solvent; fuel-gas warning agent; alcohol denaturant; leather tanning agent; used ilocating breaks and leaks in pipes. Pigment and dye Natural product of certain plants
chloromethane (methyl chloride) c-chloromethylpyridine cydrochloride c-chloro-m- chenylenediamine chromium picolinate chrysoidine (C.I. solvent crange 3) citral coloromethylpyridine chromium picolinate chrysoidine (C.I. solvent crange 3) citral coloromethylpyridine chromium picolinate chrysoidine (C.I. solvent crange 3) citral coloromethylpyridine chromium picolinate chrysoidine (C.I. solvent crange 3) citral coloromethylpyridine chromium picolinate chrysoidine (C.I. solvent crange 3) citral	6959484 5131602 532821 5392405 123739 8003223 23107122	Extensively used for silicone rubber synthesis Chemical research Chemical research Nutritional supplement containing the essential trace element chromium Dye for silk, cotton, oils, waxes Chemical intermediate (e.g., in synthesi of vitamin A); flavoring and perfuming agent Chemical intermediate in the manufacture of a variety of chemicals; solvent; fuel-gas warning agent; alcohol denaturant; leather tanning agent; used i locating breaks and leaks in pipes. Pigment and dye
chloride) d-chloromethylpyridine hydrochloride d-chloro-m- chenylenediamine d-hromium picolinate d-hrysoidine (C.I. solvent change 3) ditral D&C yellow no. 11 (C.I. colvent yellow 33) dehydroretronecine diallate	6959484 5131602 532821 5392405 123739 8003223 23107122	Synthesis Chemical research Chemical research Nutritional supplement containing the essential trace element chromium Dye for silk, cotton, oils, waxes Chemical intermediate (e.g., in synthesi of vitamin A); flavoring and perfuming agent Chemical intermediate in the manufacture of a variety of chemicals; solvent; fuel-gas warning agent; alcohol denaturant; leather tanning agent; used i locating breaks and leaks in pipes. Pigment and dye
c-chloromethylpyridine hydrochloride c-chloro-m- chenylenediamine chrysoidine (C.I. solvent brange 3) citral Cans-crotonaldehyde	5131602 532821 5392405 123739 8003223 23107122	Chemical research Nutritional supplement containing the essential trace element chromium Dye for silk, cotton, oils, waxes Chemical intermediate (e.g., in synthesi of vitamin A); flavoring and perfuming agent Chemical intermediate in the manufacture of a variety of chemicals; solvent; fuel-gas warning agent; alcoholdenaturant; leather tanning agent; used locating breaks and leaks in pipes. Pigment and dye
hydrochloride -chloro-m- shenylenediamine -hromium picolinate -hrysoidine (C.I. solvent brange 3) -itral	5131602 532821 5392405 123739 8003223 23107122	Chemical research Nutritional supplement containing the essential trace element chromium Dye for silk, cotton, oils, waxes Chemical intermediate (e.g., in synthesis of vitamin A); flavoring and perfuming agent Chemical intermediate in the manufacture of a variety of chemicals; solvent; fuel-gas warning agent; alcohodenaturant; leather tanning agent; used locating breaks and leaks in pipes. Pigment and dye
chloro-m- chenylenediamine chrysoidine (C.I. solvent change 3) citral Cans-crotonaldehyde	532821 5392405 123739 8003223 23107122	Nutritional supplement containing the essential trace element chromium Dye for silk, cotton, oils, waxes Chemical intermediate (e.g., in synthesi of vitamin A); flavoring and perfuming agent Chemical intermediate in the manufacture of a variety of chemicals; solvent; fuel-gas warning agent; alcoho denaturant; leather tanning agent; used locating breaks and leaks in pipes. Pigment and dye
chromium picolinate chrysoidine (C.I. solvent brange 3) citral crans-crotonaldehyde D&C yellow no. 11 (C.I. olvent yellow 33) lehydroretronecine liallate	532821 5392405 123739 8003223 23107122	Nutritional supplement containing the essential trace element chromium Dye for silk, cotton, oils, waxes Chemical intermediate (e.g., in synthesi of vitamin A); flavoring and perfuming agent Chemical intermediate in the manufacture of a variety of chemicals; solvent; fuel-gas warning agent; alcoho denaturant; leather tanning agent; used locating breaks and leaks in pipes. Pigment and dye
chrysoidine (C.I. solvent orange 3) citral D&C yellow no. 11 (C.I. olvent yellow 33) lehydroretronecine liallate	532821 5392405 123739 8003223 23107122	essential trace element chromium Dye for silk, cotton, oils, waxes Chemical intermediate (e.g., in synthesi of vitamin A); flavoring and perfuming agent Chemical intermediate in the manufacture of a variety of chemicals; solvent; fuel-gas warning agent; alcoho denaturant; leather tanning agent; used locating breaks and leaks in pipes. Pigment and dye
chrysoidine (C.I. solvent brange 3) citral Color yellow no. 11 (C.I. olvent yellow 33) Color yellow 33) Color yellow 33) Color yellow 33	5392405 123739 8003223 23107122	essential trace element chromium Dye for silk, cotton, oils, waxes Chemical intermediate (e.g., in synthesion of vitamin A); flavoring and perfuming agent Chemical intermediate in the manufacture of a variety of chemicals; solvent; fuel-gas warning agent; alcohodenaturant; leather tanning agent; used locating breaks and leaks in pipes. Pigment and dye
orange 3) citral rans-crotonaldehyde D&C yellow no. 11 (C.I. olvent yellow 33) lehydroretronecine liallate	5392405 123739 8003223 23107122	Chemical intermediate (e.g., in synthesis of vitamin A); flavoring and perfuming agent Chemical intermediate in the manufacture of a variety of chemicals; solvent; fuel-gas warning agent; alcohodenaturant; leather tanning agent; used locating breaks and leaks in pipes. Pigment and dye
D&C yellow no. 11 (C.I. olvent yellow 33) lehydroretronecine	8003223 23107122	of vitamin A); flavoring and perfuming agent Chemical intermediate in the manufacture of a variety of chemicals; solvent; fuel-gas warning agent; alcoho denaturant; leather tanning agent; used locating breaks and leaks in pipes. Pigment and dye
D&C yellow no. 11 (C.I. olvent yellow 33) lehydroretronecine	8003223 23107122	of vitamin A); flavoring and perfuming agent Chemical intermediate in the manufacture of a variety of chemicals; solvent; fuel-gas warning agent; alcoho denaturant; leather tanning agent; used locating breaks and leaks in pipes. Pigment and dye
D&C yellow no. 11 (C.I. olvent yellow 33) lehydroretronecine liallate	8003223 23107122	agent Chemical intermediate in the manufacture of a variety of chemicals; solvent; fuel-gas warning agent; alcoho denaturant; leather tanning agent; used locating breaks and leaks in pipes. Pigment and dye
D&C yellow no. 11 (C.I. olvent yellow 33) lehydroretronecine liallate	8003223 23107122	Chemical intermediate in the manufacture of a variety of chemicals; solvent; fuel-gas warning agent; alcoho denaturant; leather tanning agent; used locating breaks and leaks in pipes. Pigment and dye
D&C yellow no. 11 (C.I. olvent yellow 33) lehydroretronecine liallate	8003223 23107122	manufacture of a variety of chemicals; solvent; fuel-gas warning agent; alcoho denaturant; leather tanning agent; used locating breaks and leaks in pipes. Pigment and dye
olvent yellow 33) lehydroretronecine liallate	23107122	solvent; fuel-gas warning agent; alcoho denaturant; leather tanning agent; used locating breaks and leaks in pipes. Pigment and dye
olvent yellow 33) lehydroretronecine liallate	23107122	denaturant; leather tanning agent; used locating breaks and leaks in pipes. Pigment and dye
olvent yellow 33) lehydroretronecine liallate	23107122	locating breaks and leaks in pipes. Pigment and dye
olvent yellow 33) lehydroretronecine liallate	23107122	Pigment and dye
olvent yellow 33) lehydroretronecine liallate	23107122	
lehydroretronecine liallate		Natural product of cortain plants
liallate		Notural product of cortain plants
	2303164 L	
libromomannitol		Selective herbicide
HOLOHIOHIAHIIIIOI	488415	Evaluated but not approved as anti-
		neoplastic drug
liclofop-methyl	51338273	Herbicide
		Accelerator for rubber production
liftalone	21626891	Evaluated but not approved as anti-
1917	40200415	inflammatory drug
liltiazem	42399417	Prescription drug for treatment of
21 dim oth overhoom siding	01020	hypertension and angina
•	91930	Not produced commercially in 1977. Current uses unknown
	25942452	
	43043432	Used for research on carcinogenesis
	22966796	Evaluated but not approved as anti-
	22700770	neoplastic drug
N'-ethyl-N-methyl-N-	72479131	Used for research on carcinogenesis
itrosourea	, 2 , , , 131	cold for research on enterinogenesis
	4549444	Used for research on carcinogenesis
	***************************************	Evaluated but not approved as a drug
-sulfonamide	0.2002	2 variation out not approved us a usug
D&C blue no. 2	860220	Food coloring
D&C green no. 1 (guinea		Dye for wool, silk, leather, paper;
	I,N'-diethylthiourea iiftalone iiltiazem ,3'-dimethoxybenzidine- ,4'-diisocyanate imethyldiazene-1-oxide methylazoxymethane/azoxy methane) stradiol mustard ''-ethyl-N-methyl-N- itrosourea ''-ethyl-N-nitrosobutylamine -ethylsulfonylnaphthalenesulfonamide	I,N'-diethylthiourea 105555 iftalone 21626891 iltiazem 42399417 3'-dimethoxybenzidine- 3'-diisocyanate 91930 imethyldiazene-1-oxide 25843452 methylazoxymethane/azoxymethane) stradiol mustard 22966796 i'-ethyl-N-methyl-N- itrosourea 1'-ethyl-N-nitrosobutylamine 4549444 -ethylsulfonylnaphthalenesulfonamide D&C blue no. 2 860220

No.	Chemical Name	CAS	Remarks
		Number	
	green)	10000000	cosmetic pigment
49.	fipronil	120068373	Insecticide
50.	hexachlorobutadiene	87683	Solvent for elastomers; heat-transfer liquid; transformer & hydraulic fluid; wash liquor for removing C4 & higher hydrocarbons.
51.	ICRF-159	21416875	Experimental drug (not approved)
52.	imidacloprid	105827789	Insecticide
53.	isophosphamide (ifosfamide)	3778732	Prescription drug used to treat certain cancers
54.	lovastatin	75330755	Prescription drug used for treatment of hypercholesterolemia
55.	malathion	121755	Insecticide
56.	mecoprop & its salts (including methoxone sodium)	7085190	Herbicide
57.	4-methoxy-2-methyl- benzeneamine (m-cresidine)	102501	No commercial use in 1982. Current uses unknown.
58.	6-methoxy-2-nitronaphtho- [1,8-bc]pyran	10502399	Used for research on carcinogenesis
59.	methoxychlor	72435	Insecticide; ectoparasiticide in veterinary medicine
60.	N-(2-methoxyethyl)-N- nitrosourea	108278702	Used for research on carcinogenesis
61.	methyl methacrylate	80626	Widely used for polymer synthesis
62.	4-(methyl)benzenediazonium sulfate	32066798	Used for research on carcinogenesis
63.	3'-methyl-4-dimethylamino- azobenzene	55801	Used for research on carcinogenesis
64.	4-methylquinoline	491350	Used for research on carcinogenesis
65.	mexacarbate	315184	Pesticide for control of insects and mites
66.	molybdenum trioxide	1313275	Used in alloys and as catalyst
67.	MX (3-chloro-4-(dichloro- methyl)-5-hydroxy-2(511)- furanone)	77439760	Chlorination byproduct/water contaminant
68.	1,5-naphthalenediamine	2243621	Chemical intermediate
69.	nithiazide	139946	Antiprotozoan drug in poultry
70.	4-(5-nitro-2-furyl)thiazole	53757281	Used for research on carcinogenesis
71.	6-nitrobenzimidazole	94520	Used in photographic developers
72.	nitrosoazetidine	15216101	Component of tobacco smoke
73.	N-nitrosomethyl-N- heptylamine	16338991	Used for research on carcinogenesis
74.	N-nitroso-N-pentylurea, (N-amyl-N-nitrosourea)	10589749	Used for research on carcinogenesis
75.	nucleoside analogues		Anti-viral, -fungal, -psoriasis, and

No.	Chemical Name	CAS	Remarks
		Number	
			chemotherapeutic drugs
76.	omeprazole	73590586	Antacid drug
77.	oryzalin	19044883	Herbicide
78.	oxyfluorfen	42874033	Herbicide
79.	pendimethalin	40487421	Selective herbicide
80.	permethrin	52645531	Insecticide, acaricide, and nematocide
81.	petasitenine	60102376	Used in folk medicine, herbal medicine
82.	phenelzine sulfate	156514	Antidepressant drug
83.	2-phenylphenol	90437	Fungicide, plasticizer
	(orthophenylphenol)		
84.	phompsin A	64925800	Mycotoxin produced by certain fungi
85.	pivalolactone	1955459	Intermediate in chemical synthesis
86.	propoxur	114261	Insecticide
87.	ritalin (methylphenidate) and	113451	Drug for treatment of hyperactive
	its hydrochloride		children
88.	sesamol	533313	Component of sesame seeds, used in
			pharmaceutical and food industries
89.	simazine	122349	Herbicide
90.	sodium nitrite	7632000	Food preservative
91.	styrene	100425	Synthesis of polymers
92.	tetrachlorvinphos	22248-79-9	Insecticide
93.	tocopherol mix (E-mix 80 ⁺)	1406662	Mixture of tocopherols including
			vitamin E
94.	triadimenol	55219653	Fungicide
95.	tribenuron methyl	101200480	Herbicide
96.	2,4,6-trimethylaniline & its	88051	Intermediate for chemical synthesis
	hydrochloride		
	(aminomesitylene)		
97.	trimethylthiourea	2489772	Accelerator for rubber production and
			curing agent
98.	tris(2-ethylhexyl)phosphate	78422	Flame retardant, plasticizer
-00	(trioctyl phosphate)	55406506	***
99.	troysan polyphase (IPBC)	55406536	Wood preservative
100.	ziram	137304	Accelerator for rubber production;
			fungicide on food crops; pesticide (snail control)

^{*} Trade name